

10/500184

SEQUENCE LISTING

<110> SUGO, Izumi
TOMONOU, Kikuo

<120> METHOD FOR STABILIZING PROTEINS

<130> 14875-132US1

<140> US 10/500,184

<141> 2004-06-25

<150> PCT/JP02/13804

<151> 2002-12-27

<150> JP 2001-400895

<151> 2001-12-28

<160> 28

<170> PatentIn Ver. 2.1

<210> 1

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 1

aattggaagc ttgc

14

<210> 2

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 2

ccttcgaacg ttaa

14

<210> 3

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 3
gagtctagaa tggattggtg ggaatgatcc tgcgaatatg c 41

<210> 4
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 4
gagaatttcg ggtcatacat actatgcata ttcgcaggat 40

<210> 5
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 5
gagtctagaa tggattggtg ggaatgatcc tgcgaataag cat 43

<210> 6
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 6
gagaatttcg ggtcatacat actatgctta ttcgcaggat 40

<210> 7
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 7
gagtctagaa tggattggtg ggaatgatcc tgcgaattgg cat 43

<210> 8

<211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:an artificially
 synthesized primer sequence

<400> 8
 gagaatttcg ggcatatcat actatgccaa ttcgcaggat 40

<210> 9
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:an artificially
 synthesized primer sequence

<400> 9
 gagtctagaa tggattggtg ggaatgatcc tgcgaatcag cat 43

<210> 10
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:an artificially
 synthesized primer sequence

<400> 10
 gagaatttcg ggcatatcat actatgctga ttcgcaggat 40

<210> 11
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:an artificially
 synthesized primer sequence

<400> 11
 gagtctagaa tggattggtg ggaatgatcc tgcgaatgag cat 43

<210> 12
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 12
gagaatttcg ggcatatcat actatgctca ttcgcaggat 40

<210> 13
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 13
gagtctagaa tggattggtg ggaatgatcc tgcgaatttc cat 43

<210> 14
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 14
gagaatttcg ggcatatcat actatggaaa ttcgcaggat 40

<210> 15
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 15
gagtctagaa tggattggtg ggaatgatcc tgcgaatacc cat 43

<210> 16
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 16
gagaatttcg ggcatatcat actatgggta ttcgcaggat 40

<210> 17
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:an artificially
 synthesized primer sequence

<400> 17
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<210> 18
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:an artificially
 synthesized primer sequence

<400> 18
 gagaatttcg ggtcatacat actatggtta ttcgcaggat 40

<210> 19
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:an artificially
 synthesized primer sequence

<400> 19
 gagtctagaa tggattggtg ggaatgatcc tgcgaatgac cat 43

<210> 20
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:an artificially
 synthesized primer sequence

<400> 20
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<210> 21
 <211> 43
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 21

gagtctagaa tggattggtg ggaatgatcc tgcgaatccc cat

43

<210> 22

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 22

gagaatttcg ggtcatacat actatgggga ttcgcaggat

40

<210> 23

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 23

gagtctagaa tggattggtg ggaatgatcc tgcgaattgc cat

43

<210> 24

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:an artificially synthesized primer sequence

<400> 24

gagaatttcg ggtcatacat actatggcaa ttcgcaggat

40

<210> 25

<211> 444

<212> PRT

<213> Homo sapiens

<400> 25

Gln Val Gln Leu Leu Glu Ser Gly Ala Val Leu Ala Arg Pro Gly Thr
1 5 10 15

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Val | Lys | Ile | Ser | Cys | Lys | Ala | Ser | Gly | Phe | Asn | Ile | Lys | Asp | Tyr | 20 | 25 | 30 |
| Tyr | Met | His | Trp | Val | Lys | Gln | Arg | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Ile | 35 | 40 | 45 |
| Gly | Gly | Asn | Asp | Pro | Ala | Asn | Gly | His | Ser | Met | Tyr | Asp | Pro | Lys | Phe | 50 | 55 | 60 |
| Gln | Gly | Arg | Val | Thr | Ile | Thr | Ala | Asp | Thr | Ser | Thr | Ser | Thr | Val | Phe | 65 | 70 | 75 |
| Met | Glu | Leu | Ser | Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | 85 | 90 | 95 |
| Ala | Arg | Asp | Ser | Gly | Tyr | Ala | Met | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Leu | 100 | 105 | 110 |
| Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | 115 | 120 | 125 |
| Ala | Pro | Cys | Ser | Arg | Ser | Thr | Ser | Glu | Ser | Thr | Ala | Ala | Leu | Gly | Cys | 130 | 135 | 140 |
| Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | 145 | 150 | 155 |
| Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | 165 | 170 | 175 |
| Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | 180 | 185 | 190 |
| Leu | Gly | Thr | Lys | Thr | Tyr | Thr | Cys | Asn | Val | Asp | His | Lys | Pro | Ser | Asn | 195 | 200 | 205 |
| Thr | Lys | Val | Asp | Lys | Arg | Val | Glu | Ser | Lys | Tyr | Gly | Pro | Pro | Cys | Pro | 210 | 215 | 220 |
| Pro | Cys | Pro | Ala | Pro | Glu | Phe | Leu | Gly | Gly | Pro | Ser | Val | Phe | Leu | Phe | 225 | 230 | 235 |
| Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr | Pro | Glu | Val | 245 | 250 | 255 |
| Thr | Cys | Val | Val | Val | Asp | Val | Ser | Gln | Glu | Asp | Pro | Glu | Val | Gln | Phe | 260 | 265 | 270 |
| Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys | Thr | Lys | Pro | 275 | 280 | 285 |
| Arg | Glu | Glu | Gln | Phe | Asn | Ser | Thr | Tyr | Arg | Val | Val | Ser | Val | Leu | Thr | 290 | 295 | 300 |
| Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys | Cys | Lys | Val | 305 | 310 | 315 |
| | | | | | | | | | | | | | | | | | | 320 |

Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala
 325 330 335

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln
 340 345 350

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
 355 360 365

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 370 375 380

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
 385 390 395 400

Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu
 405 410 415

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 420 425 430

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
 435 440

<210> 26

<211> 214

<212> PRT

<213> Homo sapiens

<400> 26

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Ile Lys Ser Phe
 20 25 30

Leu Ser Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
 35 40 45

Tyr Tyr Ala Thr Ser Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Gly Glu Ser Pro Tyr
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala

130 135 140
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205
 Phe Asn Arg Gly Glu Cys
 210

<210> 27
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:an artificially
 synthesized sequence

<400> 27
 gagtctagaa tggattggtg ggaatgatcc tgcgaat 37

<210> 28
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:an artificially
 synthesized sequence

<220>
 <221> misc_feature
 <222> (1)..(2)
 <223> n = g, a, c, or t

<400> 28
 nnattcgcag gatcattccc accaatccat tctagactc 39

1

1